

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft Louisiana Pollutant Discharge Elimination System Permit No. LA0068501; AI 43915; PER20060001 to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The permitting authority for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** West Baton Rouge Parish
Westport Wastewater Facility
P.O. Box 53
Port Allen, LA 70767
- II. PREPARED BY:** Angela Marse
- DATE PREPARED:** March 26, 2007
- III. PERMIT ACTION:** LPDES permit LA0068501, AI 43915; PER20060001
- LPDES application received: September 20, 2006
- LPDES permit issued: October 1, 1999
- LPDES permit expired: September 30, 2004

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the community of Westport.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at 1100 Lobdell Highway South in Port Allen, West Baton Rouge Parish.
- D. The treatment facility consists of an extended aeration facility. Disinfection is by chlorination.
- E. Outfall 001

Discharge Location:	Latitude	30° 26' 23" North
	Longitude	91° 14' 41" West

Description: treated sanitary wastewater

Design Capacity: 0.3 MGD

Type of Flow Measurement which the facility is currently using:

Engineering calculation

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V. RECEIVING WATERS:

The discharge is into an unnamed ditch, thence into the Intracoastal Waterway in segment 120109 of the Terrebonne Basin. This segment is listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 120109 of the Terrebonne Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Partial	Not Supported	Full	Not Supported	N/A	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 120109 of the Terrebonne Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

Section 303 (d) of the Clean Water Act as amended by the Water Quality Act of 1987, and EPA's regulations at 40 CFR 130 require that each state identify those waters within its boundaries not meeting water quality standards. The Clean Water Act further requires states to implement plans to address impairments. LDEQ is developing Total Maximum Daily Loadings Studies (TMDLs) to address impaired waterbodies. Segment 120109 of the Terrebonne Basin is on the 2004 Integrated 303(d) List of Impaired Waterbodies. The suspected causes of impairment are pathogen indicators, organic enrichment/low DO (EPA Region 6), nutrients (EPA Region 6), and sulfates. To date no TMDLs have been completed for this waterbody.

Until completion of the TMDLs for the Terrebonne Basin, suspected causes of impairment which are not directly attributed to municipal point sources have been eliminated in the formulation of effluent limitations and other requirements of this permit. (This is the case with sulfates. The source of this impairment is drought related.) Additionally, suspected causes of impairment that could be attributed to pollutants which were not determined to be discharged at a level which would cause, have the reasonable potential to cause or contribute to an excursion above any present state water quality standards were also eliminated. This determination is made through best professional judgement based upon EPA's determination of patterns in the incidence of pollutants present in sanitary wastewater as per EPA's Proposed Rule of December 6, 1995.

Suspected causes of concern remaining after this elimination process are addressed in a manner consistent with the Department's permitting guidance for implementing Louisiana's surface water quality standards as follows:

CBOD₅ is used as a method to measure the amount of dissolved oxygen in the waste stream utilized by organisms during the decomposition of organic material over a five day period. To protect against the discharge of oxygen depleting pollutants at levels that would cause in stream oxygen problems, CBOD₅ limits have been place in the permit.

Monitoring for fecal coliform is the best indicator for the potential presence of pathogenic organisms in wastewater. To protect against potential receiving water impairments due to pathogens, fecal coliform limits have been established in the permit.

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Monitoring for ammonia nitrogen is an indicator by which to monitor for the potential presence of nutrients remaining in a waste stream after the nitrification process has taken place. To protect against the potential introduction of nutrients into the receiving waterbody at levels which exceed state water quality standards, a monitoring requirement for ammonia nitrogen has been placed in the permit.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 120109 of the Terrebonne Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered species or candidate species or their critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation
Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Mrs. Angela Marse
Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

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IX. PROPOSED PERMIT LIMITS:**OUTFALL 001**

Final effluent limitations are similar to those in the previous permit with the exception of ammonia. Ammonia nitrogen monitoring requirements have been placed in the permit to measure nutrients discharged to the receiving waterbody. Nutrients were identified as contributing source of impairments to subsegment 120109 and will be addressed by TMDL development. A reopener clause has been placed in the permit should effluent limitations be required by TMDLs.

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD ₅	25	10 mg/l	15 mg/l	Statewide Sanitary Effluent Limitations Policy for facilities of this type and size.
TSS	37	15 mg/l	23 mg/l	Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia nitrogen	---	Report mg/l	Report mg/l	Best professional judgement based on receiving waterbody impairments.

Other Effluent Limitations:**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

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2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X.**PREVIOUS PERMITS:**

LPDES Permit No. LA0068501: Issued: October 1, 1999
Expired: September 30, 2004

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Weekly Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
BOD ₅	10 mg/l	15 mg/l	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

The permit contains pretreatment language.

The permit contains pollution prevention language.

XI.**ENFORCEMENT AND SURVEILLANCE ACTIONS:****A) Inspections**

A review of the files indicates no inspections have been performed recently for this facility.

B) Compliance and/or Administrative Orders

A review of the files indicates no recent enforcement actions administered against this facility.

C) DMR Review

A review of the discharge monitoring reports for the period beginning January, 2005 through December, 2006 has revealed the following violations:

<u>Effluent Characteristic</u>	<u>Number of Violations</u>
TSS - (concentration)	12
Fecal Coliform	1

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XII.**ADDITIONAL INFORMATION:****PERMIT REOPENER CLAUSE**

In accordance with LAC 33:IX.2361.C.3, this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

- a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- b) Controls any pollutant not limited in the permit; or
- c) Requires reassessment due to change in 303(d) status of waterbody; or
- d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body. The Environmental Protection Agency will be conducting a TMDL in the Terrebonne Basin Segment 120109. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions as a result of the TMDL. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.3 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ lb/gal} \times 0.3 \text{ MGD} \times 10 \text{ mg/l} = 25 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.1 and 0.5 MGD. A compliance schedule has been included in the permit to allow the facility time to comply with the continuous recorder requirement.

Compliance Schedule

In order to meet the sample type and measurement frequency requirements of Part I of the permit, the permittee will need to install a continuous recording device to measure flow. This is standard for facilities of this type and flow. As specified in accordance with the following schedule, the permittee has one year to install such a device:

ACTIVITY	DATE
Installation of a continuous recorder flow measurement device.	Within 1 year from the effective date of the permit.

Within 14 days of installation, the permittee shall notify the Department of Environmental Quality, Office of Environmental Compliance, Permit Compliance Unit, in writing, that compliance with the requirement has been achieved.

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Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, standard pretreatment language has been included in the permit.

XIII**TENTATIVE DETERMINATION:**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV**REFERENCES:**

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, West Baton Rouge Parish, Westport Wastewater Facility, September 20, 2006.